DS-1L/2L/3L

Operating Instructions
Bedienungsanleitung
Mode d'emploi
Instrucciones de operación
Istruzioni per l'uso

Ⓑ

CASIO

EGFSI Printed in Japan/Imprimé au Japon SA0012-0320037C

English

1/General Guide

*All examples in these instructions show DS-3L.

■Main Key Functions

+/- Sign Change Key
Switches the sign of the displayed value between positive (+) and negative (-).

► Right Shift Key
Shifts the displayed value to the right, deleting the far right digit.

Example:
To change 1234 to 1235

Operation	Display
1 2 3 4	1'234.
►(Deletes 4)	123.
5	1'235.

HMS Time Key
- Specifies input value as a time (sexagesimal) value.
- Switches the displayed value between decimal and time (sexagesimal) format.

F CUT UP 5/4 Rounding Selector
Specifies the rounding system.
F: Floating decimal point system, which displays the value without rounding.
CUT: Cuts off the decimal to the specified* number of places.
UP: Rounds up the decimal to the specified* number of places.
5/4: Rounds off the decimal to the specified* number of places.
*Use the decimal place selector to specify the number of decimal places.

4 3 2 1 0 ADD. Decimal Place Selector
Specifies the number of decimal places for rounding. Note that the decimal place selector is valid whenever the rounding selector is in any position other than F.
4, 3, 2, 1, 0: Number of decimal places for the CUT, UP and 5/4 setting of the Rounding Selector.

■Error Indicator
The error indicator "E" appears on the display whenever any of the following conditions exist. To clear an error, press C to clear the error and continue with the calculation, or AC to clear the entire calculation.
- Whenever the integer part (the value to the left of the decimal point) of a calculation's intermediate result or final result becomes greater than 14 digits (12 digits with the DS-2L, 10 digits with the DS-1L). Along with the error indicator, an approximation of the value appears on the display. The following table illustrates the value that appears when you attempt to perform the calculation: 123,456,789 × 7,418,529 = 915,867,769,443,380

Model	Display
DS-3L	9.158677694433E
DS-2L	E 915.867769443
DS-1L	E 91'586.77694

- Whenever the integer part of the value stored in independent memory or grand total memory is greater than 14 digits (12 digits with the DS-2L, 10 digits with the DS-1L). At this time, the display shows "0.", but the memory retains the value it had before the overflow occurred.
- Whenever an attempt is made to perform division by zero (as in 6 ÷ 0).
- Whenever the profit in a mark-up calculation is 100%.
- Whenever an attempt is made to calculate the square root of a negative value.

3/Power Supply
The Two-Way Power System of this calculator uses a solar cell, in addition to one CR2025 lithium battery. Unlike calculators equipped with a solar cell only, you can use this calculator under virtually any lighting conditions, as long as there is enough light for you to read the display.

■Battery Replacement
Do not try to replace the battery yourself. Have it replaced by an authorized CASIO dealer or service center.
If the display becomes dim and difficult to read, or if nothing appears on the display when you press ON AC (especially when lighting is dim), you probably need to have the battery replaced.
- Have the battery replaced at least once every seven years, regardless of how much you use the calculator during that time.
- The battery installed at the factory discharges during shipment and storage. You may need to replace the original battery sooner than seven years after you purchase the calculator.
- A dead battery can leak and damage the calculator if left in the battery compartment for long periods.
- Even if the battery goes dead, you can still use the calculator under solar power. Remember, however, that memory contents will be cleared if available light drops below a certain level while there is no battery power.

■Auto Power Off Function
This calculator is not equipped with an OFF switch. Instead, it switches power off automatically about six minutes after the last key operation is performed. To restore power, press ON AC. Even if the Auto Power Off function operates to clear memory, the contents of the independent memory are not cleared.

4/Important Precautions

• Switches the displayed value between decimal and time (sexagesimal) format.

F CUT UP 5/4 Rounding Selector

Specifies the rounding system.
F: Floating decimal point system, which displays the value without rounding.
CUT: Cuts off the decimal to the specified* number of places.
UP: Rounds up the decimal to the specified* number of places.
5/4: Rounds off the decimal to the specified* number of places.
*Use the decimal place selector to specify the number of decimal places.

4 3 2 1 0 ADD Decimal Place Selector

Specifies the number of decimal places for rounding. Note that the decimal place selector is valid whenever the rounding selector is in any position other than F.
4, 3, 2, 1, 0: Number of decimal places for the CUT, UP and 5/4 setting of the Rounding Selector.
ADD$_2$: The "Add Mode" automatically adds a decimal point and two decimal places to all values, even if you don't input a decimal point. This mode is very useful when performing calculations in dollars or other monetary systems that require two decimal places. Two decimal places are not added in this mode if you press the [·] key while inputting a value, or for any operation other than addition and subtraction.

GT OFF ON Grand Total Memory Selector

You can perform the following calculation with the Grand Total Memory Selector in either the ON or OFF position. When ON, the result produced when you press [=] is added to grand total memory. When off, the result is not added.

• Other key operations are shown under "Example Calculations".

■About the Display

The display shows the number you input, calculation results, and various indicators showing the status of the calculator.
' : 3-digit separator
This symbol is also used to indicate minutes in a time display.
'': Seconds indicator (time display)
GT: Grand total memory indicator
M : Independent memory indicator
E : Error indicator
– : Negative value indicator
K : Constant calculation indicator
[+][−][×][÷]: Arithmetic operation indicators

2/Correcting Input Errors

• To completely clear a value you have just input, press [C].
• To shift a displayed valued digit-by-digit to the right, press [►] until you get to the digit you want to re-input from.
• If you input the wrong hour, minutes or seconds (time calculations) but have not yet pressed [HMS], just input the correct values.
• If you input a wrong time calculation value and press [HMS], press [C] to completely clear the time input and start again from the beginning.
• If you press the wrong arithmetic operation key ([+], [−], [×], [÷]), simply press the correct key before inputting anything else.

■Clearing Calculations

• To clear the calculator completely (except independent memory), press [AC].
• To clear the independent memory only, press [MC].

for long periods.
• Even if the battery goes dead, you can still use the calculator under solar power. Remember, however, that memory contents will be cleared if available light drops below a certain level while there is no battery power.

■Auto Power Off Function

This calculator is not equipped with an OFF switch. Instead, it switches power off automatically about six minutes after the last key operation is performed. To restore power, press [ON AC]. Even if the Auto Power Off function operates to clear memory, the contents of the independent memory are not cleared.

4/Important Precautions

• Never allow this calculator to be exposed to direct flame.
• Avoid use and storage under temperature extremes. Do not place the calculator in direct sunlight, near windows, near a heater, or anywhere else where it is subjected to high heat. Heat can lead to discoloration or warping of the case, and can even damage internal circuitry.
• Under very low temperatures, display response may slow down or fail entirely. This condition is temporary and operation should return under normal temperatures.
• Avoid use and storage in areas subject to excessive moisture, dirt, and dust. Direct contact with liquids and dust can damage internal circuitry.
• Avoid dropping the calculator and otherwise subjecting it to severe impact.
• Never bend or twist the case.
• Never try to take the calculator apart.
• Do not use a pen, pencil, or other sharp object to press keys.
• To clean the exterior of the calculator, wipe it off with a soft cloth dampened in a weak solution of a mild neutral detergent and water. Be sure to wring out any excess moisture from the cloth before wiping off the calculator. Never use benzene, thinner, or any other volatile agent to clean the calculator. Doing so can wipe off the figures printed on the case or otherwise damage its finish.
• The contents of these instructions are subject to change without notice.
• CASIO Computer Company, Ltd. assumes no responsibility for any loss or claims by third parties which may arise from the use of this product.

5/Specifications

Model: DS-1L/2L/3L
Number of Digits: DS-1L: 10
DS-2L: 12
DS-3L: 14
Memory: Independent and Grand Total Memory
Rounding: Selectable from among floating-point, round up, round off, cut off, and Add Mode
Number of Decimal Places: Selectable (0, 1, 2, 3, 4)
Power Supply: Two-Way Power System, with solar cell and one CR2025 lithium battery
Battery Life: Approximately 7 years for CR2025 lithium battery (1 hour per day of operation)
Auto Power Off: Switches power off approximately six minutes after last key operation.
Operating Temperature: 0°C to 40°C (32°F ~ 104°F)
Dimensions: 48(H) × 144(W) × 194(D) mm ($1^{7}/_{8}$''H × $5^{5}/_{8}$''W × $7^{5}/_{8}$''D)
Weight: 300 g (10.6 oz) (including the battery)